

STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 123616

TO: Rei-Tsang Shiao Location: 5a10 / 5c18 Thursday, June 03, 2004

Art Unit: 1626 Phone: 272-0707

Serial Number: 10 / 603953

From: Jan Delaval

Location: Biotech-Chem Library

Rem 1A51

Phone: 272-2504

jan.delaval@uspto.gov

Search Notes		
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Jan Deland

ACCUSS DBII 123616

SEARCH REQUEST FORM

Scientific and Technical Information Center

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Requester's Full Name: Kill W	(Kat) / SAID	Examiner # : 795 2	Date: /2/04
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Inventors (please provide full names):	Rameum	etal	
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FILE 'REGISTRY' ENTERED AT 12:25:55 ON 03 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JUN 2004 HIGHEST RN 688737-01-1 DICTIONARY FILE UPDATES: 2 JUN 2004 HIGHEST RN 688737-01-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

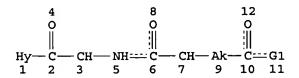
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

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L21

67 SEA FILE=REGISTRY ABB=ON PLU=ON (13434-13-4/BI OR 9054-63-1/B I OR 103723-70-2/BI OR 117607-13-3/BI OR 122501-59-1/BI OR 122519-30-6/BI OR 13734-41-3/BI OR 141969-52-0/BI OR 141969-53-1/BI OR 145588-98-3/BI OR 17351-32-5/BI OR 23356-96-9/BI OR 2528-61-2/BI OR 2687-43-6/BI OR 3392-09-4/BI OR 3392-12-9/BI OR 369636-51-1/BI OR 460754-27-2/BI OR 460754-28-3/BI OR 460754-29-4/BI OR 460754-30-7/BI OR 460754-31-8/BI OR 460754-32 -9/BI OR 460754-33-0/BI OR 460754-34-1/BI OR 460754-35-2/BI OR 460754-36-3/BI OR 460754-37-4/BI OR 460754-38-5/BI OR 460754-39 -6/BI OR 460754-40-9/BI OR 460754-41-0/BI OR 460754-42-1/BI OR 460754-43-2/BI OR 460754-44-3/BI OR 460754-45-4/BI OR 460754-46 -5/BI OR 460754-47-6/BI OR 460754-48-7/BI OR 460754-49-8/BI OR 460754-50-1/BI OR 460754-51-2/BI OR 460754-52-3/BI OR 460754-53 -4/BI OR 460754-54-5/BI OR 460754-55-6/BI OR 460754-56-7/BI OR 460754-57-8/BI OR 460754-58-9/BI OR 460754-59-0/BI OR 460754-60 -3/BI OR 460754-61-4/BI OR 460754-62-5/BI OR 460754-63-6/BI OR 460754-64-7/BI OR 460754-65-8/BI OR 460754-66-9/BI OR 460754-67 -0/BI OR 460754-68-1/BI OR 5292-43-3/BI OR 58970-76-6/BI OR 59880-97-6/BI OR 6066-82-6/BI OR 654633-90-6/BI OR 67655-94-1/B I OR 7440-48-4/BI OR 89597-97-7/BI) STR

L26

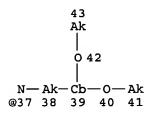


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GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L28 631229 SEA FILE=REGISTRY ABB=ON PLU=ON (333.151.57 OR 333.151.54 OR 16.136.9 OR 16.195.24)/RID NOT (SQL/FA OR PMS/CI) 173 SEA FILE=REGISTRY SUB=L28 SSS FUL L26 L30 1 SEA FILE=REGISTRY ABB=ON PLU=ON L21 AND L28 L31 L32 STR 8 12 0 0 $N\sim 0$ N√Ak @13 14 @15 16 CH-- C--- G1 CH NH: -- C 9 5 6 7 10 11 29 18 N-Ak-Cb-NO2 $N \sim N \sim Ak$ @30 31 32 @33 34 35 36 @23 27 28 20 @21



@26

VAR G1=OH/NH2/13/15/30/33/37/17/21/23/22/26/26 NODE ATTRIBUTES: CONNECT IS E1 RC AT 16

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

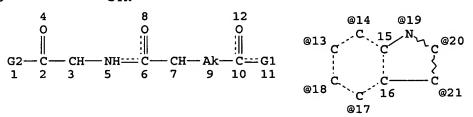
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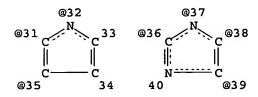
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NUMBER OF NODES IS 43

STEREO ATTRIBUTES: NONE

L34 120 SEA FILE=REGISTRY SUB=L30 SSS FUL L32 L36 STR





VAR G1=N/O/HY VAR G2=32/31/35/37/36/38/14/13/18/17/21/20/19/39 NODE ATTRIBUTES: CONNECT IS E2 RC AT DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RSPEC 13 31 36

NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE

L38 32 SEA FILE=REGISTRY SUB=L34 SSS FUL L36

L53 28 SEA FILE=REGISTRY ABB=ON PLU=ON L38 NOT (C20H25N3O6 OR

C25H26N2O6S OR C27H30N2O6 OR C33H48N4O10)

L54 12 SEA FILE=REGISTRY ABB=ON PLU=ON L53 AND (C35H38N4O6 OR

C30H39N3O7 OR C33H43N3O7 OR C31H33N3O4 OR C32H35N3O4 OR C31H41N3O7 OR C36H40N2O4 OR C37H42N2O4 OR C36H40N2O4 OR C37H42N2O4 OR C36H41N3O4 OR C37H43N3O4 OR C33H37N3O7)

L55 16 SEA FILE=REGISTRY ABB=ON PLU=ON L53 NOT L54 L56 17 SEA FILE=REGISTRY ABB=ON PLU=ON (L31 OR L55)

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L56 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 460754-50-1 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-2-pentyl-, (2R)- (9CI)

(CA INDEX NAME)
FS STEREOSEARCH

FS STEREOSEARCH MF C25 H36 N4 O5

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATZ, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES

(Uses)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:247930

L56 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 250152-85-3 REGISTRY

Butanediamide, N4-hydroxy-N1-{2-(1-methyl-1H-indol-3-yl)-2-oxo-1-CN (phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME) STEREOSEARCH FS C29 H35 N3 O4 MF SR CA STN Files: CA, CAPLUS, USPATFULL LC CAplus document type: Patent DT.CA Roles from patents: BIOL (Biological study); PREP (Preparation); USES RL.P (Uses)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

ANSWER 3 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN L56 220690-80-2 REGISTRY RN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[(1R)-2-oxo-1-CN (phenylmethyl) -2-(1H-pyrrol-3-yl)ethyl] -3-(2-propenyl) -, (2S,3R)-rel-(9CI) (CA INDEX NAME) FS STEREOSEARCH MF C24 H31 N3 O4 SR LC STN Files: CA, CAPLUS DT.CA CAplus document type: Journal Roles from non-patents: BIOL (Biological study); PROC (Process); USES (Uses)

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:191422

L56 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 220690-78-8 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1R)-2-(1-methyl-1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2S,3R)-rel-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C29 H35 N3 O4

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); PROC (Process); USES (Uses)

Relative stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:191422

L56 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210711-94-7 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1R)-2-(1H-indol-3-y1)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(4-pentenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H37 N3 O4

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:149247

L56 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

210711-81-2 REGISTRY RN

Butanediamide, N4-hydroxy-N1-[2-(1H-indol-3-yl)-2-oxo-1-CN(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H33 N3 O4

SR

LC STN Files: CA, CAPLUS, USPATFULL DT.CA CAplus document type: Patent

Roles from patents: BIOL (Biological study); PREP (Preparation); USES RL.P (Uses)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 129:149247 L56 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210711-17-4 REGISTRY

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-3-yl)ethyl]-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C24 H31 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 129:149247

L56 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210711-13-0 REGISTRY

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C24 H31 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PROC (Process); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 130:191422

REFERENCE 3: 129:149247

L56 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210711-12-9 REGISTRY

CN Hexanoic acid, 5-methyl-3-[[[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]amino]carbonyl]-2-(2-propenyl)-, (2S,3R)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C24 H30 N2 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 129:149247

L56 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210711-03-8 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1-methyl-1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C29 H35 N3 O4

SR CA

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 129:149247

L56 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210710-94-4 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1S)-1-(1H-indol-3-ylcarbonyl)-2,2-dimethylpropyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C25 H35 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PROC (Process); USES (Uses)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 130:191422

REFERENCE 3: 129:149247

L56 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210710-88-6 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-

(phenylmethyl)ethyl]-2-(2-methylpropyl)-, (2R)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C25 H29 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PROC (Process); USES (Uses)

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 130:191422

REFERENCE 3: 129:149247

L56 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210710-86-4 REGISTRY

CN Hexanoic acid, 3-[[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-, (3R)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C25 H28 N2 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 129:149247

L56 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210710-83-1 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-y1)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(4-pentenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C30 H37 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

Absolute stereochemistry. Rotation (-).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 129:149247

L56 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210710-80-8 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-y1)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H33 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PROC (Process); USES (Uses)

Absolute stereochemistry. Rotation (-).

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 130:191422

REFERENCE 3: 129:149247

L56 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210710-79-5 REGISTRY

CN Butanediamide, N4-hydroxy-N1-[(1R)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H33 N3 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Absolute stereochemistry. Rotation (+).

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 129:149247

L56 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN

RN 210710-78-4 REGISTRY

CN Hexanoic acid, 3-[[[2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-2-(2-propenyl)-, (2S,3R)-(9CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C28 H32 N2 O4

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); RACT (Reactant or reagent)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:336941

REFERENCE 2: 129:149247

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L15

L16

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3 S L14 NOT 56384-19-1

3 S L11, L15

SEL RN

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L1
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              3 S E4,E5
L2
L3
             95 S E39-E44
                E SIROTNAK F/AU
            266 S E4-E10
L4
                E SCHER H/AU
L5
            139 S E3-E6,E15,E16
                E VIDAL E/AU
L6
             36 S E3-E5, E12-E14
                E SOMBRITO/AU
                E EPHRAIM/AU
                E BORELLE C/AU
                E BORELL C/AU
L7
              7 S E4-E6
                E BOREL C/AU
L8
             56 S E3, E6, E7, E11
                E BORELE/AU
                E SCHEINBERG D/AU
L9
            112 S E3-E6
L10
            167 S ACTINONIN#
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L11
              1 S ACTINONIN/CN
                E C19H35N3O5/MF
             12 S E3 AND NC4/ES AND 1/NR
L12
L13
              4 S L12 AND PENTYL
L14
              4 S L11, L13
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L17
              0 S E1-E3/CRN
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L18
              7 S L2-L9 AND L10, L18
L19
              7 S L1, L19
L20
                SEL RN
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            67 S E4-E70
L21
             66 S L21 NOT L16
L22
             57 S L22 AND NR>=1 AND N/ELS
L23
             49 S L23 AND O>=3
L24
             48 S L24 NOT C4H5NO3
L25
L26
                STR
            50 S L26
L27
         631229 S (333.151.57 OR 333.151.54 OR 16.136.9 OR 16.195.24)/RID NOT
L28
              6 S L26 SAM SUB=L28
L29
            173 S L26 FUL SUB=L28
L30
                SAV L30 SHIAO603/A
L31
              1 S L21 AND L28
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              3 S L40 AND (GASTRIN OR KINASE OR MYCOPLAN?)
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              6 S L40 AND (C100H166N34O34 OR C150H219N33O47 OR C70H96N16O20 OR
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L43
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             10 S L39
             82 S L43
L45
              3 S L44 AND L45
L46
L47
             10 S L44, L46
              1 S L2-L9 AND L44
L48
L49
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              1 S L58 AND L1-L10, L18
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4 S L56

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FILE 'REGISTRY' ENTERED AT 12:25:55 ON 03 JUN 2004

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 12:26:09 ON 03 JUN 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 3 Jun 2004 VOL 140 ISS 23 FILE LAST UPDATED: 2 Jun 2004 (20040602/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d/160 all hitstr tot

LEO ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:736021 HCAPLUS

DN 137:247930

ED Entered STN: 27 Sep 2002

TI Asymmetric synthesis of (S,S,R)-(-)-actinonin and its analogs

IN Bornman, William G.; Sirotnak, Francis M.; Scher, Howard; Vidal, Ephraim; Scheinberg, David; Borella, Christopher

PA Sloan Kettering Institute for Cancer Research, USA

SO PCT Int. Appl., 77 pp. CODEN: PIXXD2

DT Patent

LA English

ICI C07

CC 34-3 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 1, 63

FAN.CNT 1

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	RW: BF, BJ,	CI, CM, GN, ML,	NR, SN, TD, TG
	US 200219815)5	A1 20021226	US 2002-102593 20020319 <
	US 6660741	B2 20031209	
	EP 1372692	A2 20040102	EP 2002-725239 20020319 <
	R: AT, BE,	CH, DE, DK, ES,	FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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	US 2002-102593	A3 20020319	
	WO 2002-US8387	W 20020319	<
os	CASREACT 137:24	7930; MARPAT 137	:247930

The analogs of (S,S,R)-(-)-actinonin I [R1 = an optionally substituted or halogenated alkyl, aryl, heteroalkyl or heteroaryl amine, a cycle or bicycle; R2 = Me, Et, n-Pr, tert-Bu, Ph, 3,4-dichlorophenyl, biphenyl, benzyl, 4-hydroxybenzyl, piperidine, N-Boc-4-piperidine, CH2-(N-Boc-4-piperidine), 4-tetrahydropyran, CH2-4-tetrahydropyran, 3-Me indolyl, 2-naphthyl, 3-pyridyl, 4-pyridyl, 3-thienyl; R3 = R2 or alkyl; R4 = alkyl; R5 = NH2, OH, NHOH, NHOMe, N(Me)OH, N(Me)OCH3, NHEt, NHCH2(2,40Me2Ph), NHCH2(4-NO2)Ph, NHNMe2, proline, or 2-hydroxymethyl pyrrolidine, Boc = tert-butoxycarbonyl] were prepared as antitumor agents. Thus, N4-hydroxy-N1-(1-(2-hydroxymethyl-pyrrolidine-1-carbonyl)-3-methyl-butyl)-2-pentyl-succinamide was prepared by coupling of protected pseudopeptide composed of L-prolinol and L-leucine, with hydroxysuccinamide and O-benzylhydroxyamine hydrochloride and is effective at inhibiting cell growth.

ST actinonin deriv asym synthesis tumor cell growth inhibitor; antitumor agent actinonin analog asym synthesis cytotoxicity

IT Leukemia

(acute myelogenous; asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

IT Lung, neoplasm

(adenoacanthoma; asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

IT Antitumor agents

Asymmetric synthesis and induction

Cytotoxicity

Human

Neoplasm

(asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

IT Mammary gland, neoplasm

Ovary, neoplasm

Prostate gland, neoplasm

(carcinoma; asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

IT Cell proliferation

(inhibition; asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

IT Neck, anatomical

(neoplasm, squamous cell carcinoma; asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

IT Lung, neoplasm

(non-small-cell carcinoma; asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

IT Head, neoplasm

Lung, neoplasm

(squamous cell carcinoma; asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

IT 460754-59-0P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic

preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors) IT 13434-13-4P, Actinonin 141969-52-0P 141969-53-1P 460754-40-9P 460754-47-6P 460754-48-7P 460754-49-8P 460754-50-1P 460754-51-2P 460754-52-3P 460754-53-4P 460754-54-5P 460754-55-6P 460754-56-7P 460754-57-8P 460754-58-9P 460754-60-3P 460754-61-4P 460754-62-5P 460754-63-6P 460754-64-7P 460754-65-8P 460754-66-9P 460754-67-0P 460754-68-1P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors) 2687-43-6 2528-61-2, Heptanoyl chloride 3392-09-4 5292-43-3, IT tert-Butyl bromoacetate 6066-82-6, N-Hydroxysuccinimide 23356-96-9 103723-70-2, 4-Isopropyl-oxazolidin-2-one 1 13734-41-3 117607-13-3 RL: RCT (Reactant); RACT (Reactant or reagent) (asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors) IT 122501-59-1P 122519-30-6P 3392-12-9P 89597-97-7P 145588-98-3P 460754-30-7P 460754-27-2P 460754-28-3P 460754-29-4P 460754-31-8P 460754-32-9P 460754-33-0P 460754-34-1P 460754-35-2P 460754-36-3P 460754-37-4P 460754-38-5P 460754-39-6P 460754-41-0P 460754-42-1P 460754-43-2P 460754-44-3P 460754-45-4P 460754-46-5P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors) IT 13434-13-4P, Actinonin 460754-50-1P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors) 13434-13-4 HCAPLUS RNCN Butanediamide, N4-hydroxy-N1-[(1S)-1-[[(2S)-2-(hydroxymethyl)-1pyrrolidinyl]carbonyl]-2-methylpropyl]-2-pentyl-, (2R)- (9CI) (CA INDEX

Absolute stereochemistry. Rotation (-).

RN 460754-50-1 HCAPLUS
CN Butanediamide, N4-hydroxy-N1-[(1S)-2-[(2S)-2-(hydroxymethyl)-1pyrrolidinyl]-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-2-pentyl-, (2R)- (9CI)
(CA INDEX NAME)

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L60
     1999:733851 HCAPLUS
ΑN
DN
     131:336941
     Entered STN: 18 Nov 1999
ED
     Preparation of [(aroylalkyl)amino]succinylhydroxamic acids and analogs as
TТ
     inhibitors of matrix metalloproteinases and TNF\alpha secretion
     Davidsen, Steven K.; Florjancic, Alan S.; Sheppard, George S.; Giesler,
IN
     Jamie R.; Xu, Lianhong; Guo, Yan; Curtin, Michael L.; Michaelides, Michael
     R.; Wada, Carol K.; Holms, James H.
     Abbott Laboratories, USA
PA
so
     U.S., 67 pp.
     CODEN: USXXAM
DT
     Patent
LA
     English
IC
     ICM C07C259-10
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     514419000
     27-11 (Heterocyclic Compounds (One Hetero Atom))
CC
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PΙ
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                            19991116
                                           US 1997-992578
                                                             19971217
PRAI US 1997-35781P
                       P
                            19970107
os
     MARPAT 131:336941
     RCOCR1R2CHR3CONHCR4R5C(:X)R6 [I; R = NHOH or OH; R1,R4 = H or alkyl; R2 =
AB
     H, OH, alk(en)yl, alkoxy, etc.; R3 = alk(en)yl, phenyl(alkyl), etc.; R5 =
     alkyl, Ph, etc.; R6 = alkyl, Ph, heteroaryl, etc.; X = O or NOR1] were
     prepared Thus, indole was acylated by L-MeO2CNHCH(CH2Ph)CO2H and the
     N-deprotected product amidated by (S,S)-RCOCHR2CHR3COR7 (R2 = CH2CH:CH2,
     R3 = CH2Ph)(II; R = OCMe3, R7 = OC6F5) to give II [R7 = NHCH(CH2Ph)COR6,
     R6 = 3-indolyl](III; R = OCMe3) which was converted in 2 steps to III (R =
     NHOH). Data for biol. activity of I were given.
ST
     succinylhydroxamate aroylalkylamino prepn matrix metalloproteinase
     TNFalpha inhibitor
IT
     Connective tissue
        (disease, treatment; preparation of [(aroylalkyl)amino]succinylhydroxamic
        acids and analogs as inhibitors of matrix metalloproteinases and
        TNFa secretion)
     Tumor necrosis factors
TT
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (mediated disorders; treatment; preparation of [(aroylalkyl)amino]succinylhy
        droxamic acids and analogs as inhibitors of matrix metalloproteinases
        and TNF\alpha secretion)
     141907-41-7, Matrix metalloproteinase
IT
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RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (mediated disorders; treatment; preparation of [(aroylalkyl)amino]succinylhy
        droxamic acids and analogs as inhibitors of matrix metalloproteinases
        and TNF\alpha secretion)
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     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of [(aroylalkyl)amino]succinylhydroxamic acids and analogs as
        inhibitors of matrix metalloproteinases and TNF\alpha secretion)
     63-91-2, L-Phenylalanine, reactions 67-63-0, 2-Propanol, reactions
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                                             100-39-0, Benzyl bromide
     95-54-5, o-Phenylenediamine, reactions
     106-38-7, 4-Bromotoluene 107-18-6, 2-Propen-1-ol, reactions
                108-86-1, Bromobenzene, reactions 109-97-7, Pyrrole
     reactions
     120-72-9, Indole, reactions 288-42-6, Oxazole 288-47-1, Thiazole
     578-57-4, 2-Bromoanisole 591-51-5, Phenyllithium 591-80-0, 4-Pentenoic
           626-55-1, 3-Bromopyridine 627-15-6, 1,3-Dibromo-1-propene
                                    771-61-9, Pentafluorophenol 928-90-5,
     646-07-1, 4-Methylvaleric acid
                  1119-51-3, 5-Bromo-1-pentene 2177-63-1 2462-32-0,
     5-Hexyn-1-ol
     Phenylalanine benzyl ester hydrochloride 2675-79-8, 3,4,5-
     Trimethoxybromobenzene 2687-43-6, O-Benzylhydroxylamine hydrochloride
     2786-07-4, 2-Thienyllithium
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     4392-24-9, Cinnamyl bromide
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     Cyclohexylacetic acid
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                7766-51-0, 4-Iodo-1-butene 10365-98-7, 3-
     Malic acid
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     Methoxyphenylboronic acid 13734-34-4
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     31600-88-1
                 37736-82-6
                                                        78887-39-5,
     3-Acetamidophenylboronic acid
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        (preparation of [(aroylalkyl)amino]succinylhydroxamic acids and analogs as
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     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (preparation of [(aroylalkyl)amino]succinylhydroxamic acids and analogs as
        inhibitors of matrix metalloproteinases and TNF\alpha secretion)
              THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE.CNT
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RE
(1) Anon; WO 9102716 1991 HCAPLUS
(2) Anon; EP 0489577 1992 HCAPLUS
(3) Anon; EP 0498665 1992 HCAPLUS
(4) Anon; WO 9213831 1992 HCAPLUS
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(6) Anon; WO 9324449 1993 HCAPLUS
(7) Anon; WO 9402446 1994 HCAPLUS
(8) Anon; WO 9402447 1994 HCAPLUS
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(14) Anon; WO 9504735 1995 HCAPLUS
(15) Anon; WO 9506031 1995 HCAPLUS
(16) Anon; WO 9519956 1995 HCAPLUS
(17) Anon: WO 9519961 1995 HCAPLUS
(18) Anon; WO 9522966 1995 HCAPLUS
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(21) Anon; WO 9532944 1995 HCAPLUS
(22) Anon; WO 9616027 1996 HCAPLUS
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     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
        (preparation of [(aroylalkyl)amino]succinylhydroxamic acids and analogs as
        inhibitors of matrix metalloproteinases and TNF\alpha secretion)
RN
     210710-79-5 HCAPLUS
     Butanediamide, N4-hydroxy-N1-[(1R)-2-(1H-indol-3-yl)-2-oxo-1-
CN
     (phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI)
     (CA INDEX NAME)
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Absolute stereochemistry. Rotation (+).

RN 210710-80-8 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-83-1 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(4-pentenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-86-4 HCAPLUS

CN Hexanoic acid, 3-[[[(1S)-2-(1H-indol-3-yl)-2-oxo-1-

(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 210710-88-6 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-94-4 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-1-(1H-indol-3-ylcarbonyl)-2,2-dimethylpropyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-13-0 HCAPLUS

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]-3-(2-propenyl)-, (2R,3S)- (9CI)

(CA INDEX NAME)

Absolute stereochemistry.

RN 210711-17-4 HCAPLUS

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-3-yl)ethyl]-3-(2-propenyl)-, (2R,3S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-81-2 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 250152-85-3 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[2-(1-methyl-1H-indol-3-yl)-2-oxo-1-

(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

IT 210710-78-4P 210711-12-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of [(aroylalkyl)amino]succinylhydroxamic acids and analogs as inhibitors of matrix metalloproteinases and $TNF\alpha$ secretion)

RN 210710-78-4 HCAPLUS

CN Hexanoic acid, 3-[[[2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-2-(2-propenyl)-, (2S,3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-12-9 HCAPLUS

CN Hexanoic acid, 5-methyl-3-[[[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]amino]carbonyl]-2-(2-propenyl)-, (2S,3R)- (9CI) (CA INDEX NAME)

L60 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:1284 HCAPLUS

DN 130:191422

ED Entered STN: 04 Jan 1999

TI Aryl ketones as novel replacements for the C-terminal amide bond of succinyl hydroxamate MMP inhibitors

AU Sheppard, George S.; Florjancic, Alan S.; Giesler, Jamie R.; Xu, Lianhong; Guo, Yan; Davidsen, Steven K.; Marcotte, Patrick A.; Elmore, Ildiko; Albert, Daniel H.; Magoc, Terrance J.; Bouska, Jennifer J.; Goodfellow, Carole L.; Morgan, Douglas W.; Summers, James B.

CS Cancer Research Area, Department 47J, Abbott Laboratories, Abbott Park, IL, 60064, USA

SO Bioorganic & Medicinal Chemistry Letters (1998), 8(22), 3251-3256 CODEN: BMCLE8; ISSN: 0960-894X

PB Elsevier Science Ltd.

DT Journal

LA English

CC 1-3 (Pharmacology)

GI

AB A series of succinyl hydroxamate MMP inhibitors (I) were prepared incorporating an aryl amino ketone moiety in place of the more typical C-terminal amino acid amides. Compds. of the C-terminal ketone series displayed potent inhibition of MMPs. Several compds. of the series were shown to be orally bioavailable.

ST succinyl hydroxamate matrix metalloproteinase inhibitor

IT Drug bioavailability

(activity and bioavailability of succinyl hydroxamate matrix metalloproteinase inhibitors)

IT Structure-activity relationship

(matrix metalloproteinase-inhibiting; activity and bioavailability of succinyl hydroxamate matrix metalloproteinase inhibitors)

154039-60-8, Bb 2516 IT 130370-60-4, Bb 94 147783-67-3 210483-50-4 210483-51-5 210483-53-7 210483-68-4 210483-79-7 210483-82-2 210483-92-4 210484-00-7 210710-80-8 210710-85-3 210710-88-6 210710-94-4 210710-98-8 210711-00-5

210711-04-9 210711-05-0 210711-13-0 220690-78-8

220690-80-2 220690-85-7 220690-87-9 220690-88-0

220690-89-1 220690-90-4 220690-93-7

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(activity and bioavailability of succinyl hydroxamate matrix metalloproteinase inhibitors)

IT 141907-41-7, Matrix metalloproteinase

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(inhibitors; activity and bioavailability of succinyl hydroxamate matrix metalloproteinase inhibitors)

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

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- (2) Fairlie, D; Curr Med Chem 1995, V2, P654 HCAPLUS
- (3) Florjancic, A; manuscript in preparation
- (4) Hajduk, P; J Am Chem Soc 1997, V119, P5818 HCAPLUS
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- (7) Sheppard, G; J Med Chem 1994, V37, P2011 HCAPLUS
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- (11) Xue, C; J Med Chem 1998, V41, P1745 HCAPLUS
- (12) Ye, Q; Biochemistry 1992, V31, P11231 HCAPLUS
- (13) Zask, A; Curr Pharm Design 1996, V2, P624 HCAPLUS
- IT 210710-80-8 210710-88-6 210710-94-4 210711-13-0 220690-78-8 220690-80-2

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(activity and bioavailability of succinyl hydroxamate matrix metalloproteinase inhibitors)

RN 210710-80-8 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-88-6 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-94-4 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-1-(1H-indol-3-ylcarbonyl)-2,2-dimethylpropyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-13-0 HCAPLUS

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 220690-78-8 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1R)-2-(1-methyl-1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2S,3R)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 220690-80-2 HCAPLUS

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[(1R)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-3-yl)ethyl]-3-(2-propenyl)-, (2S,3R)-rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.

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ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
L60
AN
     1998:490622 HCAPLUS
DN
     129:149247
     Entered STN: 06 Aug 1998
ED
     C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases
TI
     and TNFA secretion
     Davidsen, Steven K.; Florjancic, Alan Scott; Sheppard, George S.; Giesler,
IN
     Jamie R.; Xu, Lianhong; Guo, Yan; Curtin, Michael L.; Michaelides, Michael
     R.; Wada, Carol K.; Holms, James H.
PA
     Abbott Laboratories, USA
SO
     PCT Int. Appl., 139 pp.
     CODEN: PIXXD2
DT
     Patent
LΑ
     English
IC
     ICM C07D209-18
     ICS C07C259-06; C07D207-337; C07D213-56; C07D333-24; C07D263-32;
          C07D277-30; C07D235-16; A61K031-165; A61K031-40; A61K031-44;
          A61K031-38; A61K031-42
CC
     34-2 (Amino Acids, Peptides, and Proteins)
     Section cross-reference(s): 1
FAN.CNT 1
     PATENT NO.
                                           APPLICATION NO.
                                                           DATE
                      KIND DATE
PΤ
     WO 9830541
                      A1
                            19980716
                                           WO 1998-US142
                                                            19980107
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG,
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KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX,
             NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT,
             UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI,
             FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,
             GA, GN, ML, MR, NE, SN, TD, TG
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                                           ZA 1998-18
                                                             19980102
                       Α
    TW 399042
                            20000721
                                           TW 1998-87100087 19980105
                       В
                                           AU 1998-59582
    AU 9859582
                       A1
                            19980803
                                                             19980107
                                           EP 1998-902771
                                                             19980107
    EP 964851
                       A1
                            19991222
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
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                            20020129
                       T2
     JP 2002503216
PRAI US 1997-779778
                            19970107
                       Α
     WO 1998-US142
                       W
                            19980107
os
    MARPAT 129:149247
GI
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Amino acid derivs. WCOCR1R2CHR3CONHCR4R5C(:V)R6 [W = NHOH, OH; R1, R4 = H, alkyl; V = O, NOR1; R2 = H, OH, alkoxy, (un)substituted alkyl or alkenyl; R3 = (un)substituted alkyl, Ph, or phenylalkyl, cycloalkyl, cycloalkylalkyl, cycloalkylene, cycloalkylenealkyl; R5 = (un)substituted alkyl or phenyl; R6 = (un)substituted alkyl, Ph, 1,3-benzodioxole, indolyl, pyrrolyl, imidazolyl, benzimidazolyl, pyridyl, thienyl, thiazolyl, oxazolyl, furyl, benzofuryl, benzothiazolyl] were prepared as potent inhibitors of matrix metalloproteinase. Thus, C-terminal ketone hydroxamic acid I, prepared via reaction of N-carbomethoxy-L-phenylalanine with indole and a disubstituted succinate diester, showed IC50 = 2.3 nM for inhibition of stromelysin.

Ι

ST amino acid ketone prepn inhibitor metalloproteinase; hydroxamic acid prepn inhibitor metalloproteinase; TFNA secretion inhibition hydroxamic acid

IT Amino acids, preparation

Hydroxamic acids

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

IT Tumor necrosis factors

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

IT 210711-81-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

IT 210710-86-4P 210710-90-0P 210710-96-6P 210710-97-7P 210711-46-9P 210711-48-1P 210711-53-8P

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RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT
(Reactant or reagent); USES (Uses)
   (C-terminal ketone hydroxamic acid inhibitors of matrix
   metalloproteinases and TNFA secretion)
210710-79-5P 210710-80-8P 210710-83-1P
210710-85-3P 210710-88-6P
                            210710-89-7P
                                           210710-92-2P
               210710-98-8P
                              210710-99-9P
                                             210711-00-5P
210710-94-4P
210711-02-7P 210711-03-8P
                            210711-04-9P
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210711-07-2P
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210711-30-1P
               210711-31-2P
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210711-80-1P
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                                                             210711-91-4P
210711-94-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)
   (C-terminal ketone hydroxamic acid inhibitors of matrix
   metalloproteinases and TNFA secretion)
79955-99-0, Stromelysin
                          141907-41-7, Matrix metalloproteinase
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
(Biological study); PROC (Process)
   (C-terminal ketone hydroxamic acid inhibitors of matrix
   metalloproteinases and TNFA secretion)
63-91-2, L-Phenylalanine, reactions
                                      95-54-5, o-Phenylenediamine,
reactions
           106-38-7, 4-Bromotoluene
                                      108-30-5, reactions
                                                              108-86-1,
Bromobenzene, reactions
                          109-97-7, Pyrrole
                                              120-72-9, Indole, reactions
                    288-47-1, Thiazole 578-57-4, 2-Bromoanisole
288-42-6, Oxazole
                           603-76-9, 1-Methylindole
                                                        626-55-1,
591-80-0, 4-Pentenoic acid
3-Bromopyridine 646-07-1, 4-Methylvaleric acid
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                                                                2462-32-0
2675-79-8, 3,4,5-Trimethoxybromobenzene
                                         2786-07-4, 2-Thienyllithium
            3972-65-4, 4-Bromo-tert-butylbenzene
                                                  4392-24-9, Cinnamyl
3144-16-9
                                             5292-43-3, tert-Butyl
          5292-21-7, Cyclohexylacetic acid
bromide
                                              10365-98-7
                                                           13734-34-4
               7766-51-0, 3-Butenyl iodide
bromoacetate
                                       51987-73-6
                                                     72155-45-4,
             37736-82-6
                         47375-34-8
31600-88-1
                                         78887-39-5
                                                       87630-35-1,
N-tert-Butoxycarbonyl-L-phenylalaninal
                                                         157518-71-3
                             90719-32-7
                                          148415-75-2
1-Triisopropylsilylpyrrole
                                          210484-09-6
                                                         210710-91-1
162439-40-9
              179533-97-2
                            191849-93-1
                                          210711-77-6
              210711-01-6
                            210711-68-5
210710-93-3
RL: RCT (Reactant); RACT (Reactant or reagent)
   (C-terminal ketone hydroxamic acid inhibitors of matrix
   metalloproteinases and TNFA secretion)
                                                      36979-87-0P
777-93-5P
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            3882-09-5P
                         13590-42-6P
                                                       83541-68-8P
                                         41844-91-1P
38136-29-7P, 4-Methylvaleryl chloride
                            95437-43-7P
                                          100388-65-6P
                                                          101224-43-5P
85613-64-5P
              87630-36-2P
                                              113543-30-9P
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210711-38-9P
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210711-51-6P

210711-61-8P

210711-71-0P

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210711-45-8P 210711-59-4P

210711-66-3P

210711-52-7P

210711-62-9P

210711-72-1P

210711-58-3P

210711-65-2P

210711-79-8P

210711-82-3P 210711-83-4P 210711-84-5P 210711-86-7P 210711-87-8P 210711-88-9P 210711-92-5P 210711-93-6P 210759-11-8P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

IT 210710-74-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD RE

- (1) British Bio-Technology Ltd; EP 0498665 A 1992 HCAPLUS
- (2) British Biotech Pharmaceuticals Ltd; WO 9519956 A 1995 HCAPLUS
- (3) British Biotech Pharmaceuticals Ltd; WO 9519961 A 1995 HCAPLUS
- (4) British Biotech Pharmaceuticals Ltd; WO 9532944 A 1995 HCAPLUS
- (5) British Biotech Pharmaceuticals Ltd; WO 9633161 A 1996 HCAPLUS
- (6) Celltech Ltd; EP 0489577 A 1992 HCAPLUS
- (7) Celltech Ltd; WO 9324449 A 1993 HCAPLUS
- (8) Celltech Ltd; US 5300501 A 1994 HCAPLUS
- (9) Celltech Ltd; WO 9425435 A 1994 HCAPLUS
- (10) F Hoffmann-La Roche Ag; EP 0575844 A 1993 HCAPLUS
- (11) Immunex Corp; WO 9506031 A 1995 HCAPLUS
- IT 210711-81-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

RN 210711-81-2 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[2-(1H-indol-3-y1)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 210710-86-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

RN 210710-86-4 HCAPLUS

CN Hexanoic acid, 3-[[[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

IT 210710-79-5P 210710-80-8P 210710-83-1P 210710-88-6P 210710-94-4P 210711-03-8P 210711-13-0P 210711-17-4P 210711-94-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

RN 210710-79-5 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1R)-2-(1H-indol-3-y1)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 210710-80-8 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-y1)-2-oxo-1- (phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-83-1 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(4-pentenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-88-6 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-94-4 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-1-(1H-indol-3-ylcarbonyl)-2,2-dimethylpropyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

RN 210711-03-8 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1-methyl-1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-13-0 HCAPLUS

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-17-4 HCAPLUS

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-3-yl)ethyl]-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-94-7 HCAPLUS

CN Butanediamide, N4-hydroxy-N1-[(1R)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(4-pentenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 210710-78-4P 210711-12-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(C-terminal ketone hydroxamic acid inhibitors of matrix metalloproteinases and TNFA secretion)

RN 210710-78-4 HCAPLUS

CN Hexanoic acid, 3-[[[2-(1H-indol-3-yl)-2-oxo-1-

(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-2-(2-propenyl)-, (2S,3R)(9CI) (CA INDEX NAME)

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RN 210711-12-9 HCAPLUS
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CN Hexanoic acid, 5-methyl-3-[[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]amino]carbonyl]-2-(2-propenyl)-, (2S,3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 12:26:19 ON 03 JUN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 12:26:19 ON 03 JUN 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr tot

L61 ANSWER 1 OF 4 USPATFULL on STN

AN 2004:25241 USPATFULL

TI Asymmetric synthesis of (S,S,R)-(-)-actinonin and its analogs and uses therefor

IN Bornmann, William G., New York, NY, UNITED STATES Sirotnak, Francis, New York, NY, UNITED STATES Scher, Howard, Tenefly, NJ, UNITED STATES Vidal, Ephraim, Cincinnati, OH, UNITED STATES Borelle, Christopher, New York, NY, UNITED STATES Scheinberg, David, New York, NY, UNITED STATES

PA Sloan-Kettering Institute for Cancer Research (U.S. corporation)

PI US 2004019083 A1 20040129

AI US 2003-603953 A1 20030625 (10)

RLI Division of Ser. No. US 2002-102593, filed on 19 Mar 2002, PENDING

PRAI US 2001-277116P 20010319 (60)

DT Utility

FS APPLICATION

LREP Benjamin Aaron Adler, Ph.D., J.D., Adler & Associates, 8011 Candle Lane, Houston, TX, 77071

CLMN Number of Claims: 21

ECL Exemplary Claim: 1
DRWN 7 Drawing Page(s)

DRWN 7 Dra LN.CNT 1626

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for the asymmetric synthesis of (S,S,R)-(-)-actinonin and its analogs and the compounds thereby synthesized having a structural formula: ##STR1##

where R.sup.1 is an optionally substituted or halogenated alkyl, aryl, heteroalkyl or heteroaryl amine, said R.sup.1 further comprising a cyclic or bicyclic structure; R.sup.2 is methyl, CH.sub.2CH.sub.3, (CH.sub.2).sub.2CH.sub.3, C(CH.sub.3).sub.3, phenyl, 3,4-dichlorophenyl, biphenyl, benzyl, 4-hydroxybenzyl, piperidine, N-Boc-4-piperidine,

CH.sub.2-(N-Boc-4-piperidine), 4-tetrahydropyran, CH.sub.2-4-tetrahydropyran, 3-methyl indolyl, 2-naphthyl, 3-pyridyl, 4-pyridyl, 3-thienyl; R.sup.3 is R.sup.2 or C.sub.3-8alkyl, R.sup.4 is C.sub.1-3alkyl; and R.sup.5 is NH.sub.2, OH, NHOH, NHOCH.sub.3, N(CH.sub.3)OH, N(CH.sub.3)OCH.sub.3, NHCH.sub.2CH.sub.3, NHCH.sub.2CH.sub.3, NHCH.sub.2(2,4-(OCH3).sub.2Ph, NHCH.sub.2(4-NO.sub.2)Ph, NHN(CH.sub.3).sub.2, proline, or 2-hydroxymethyl pyrrolidine. Additionally, a method for the treatment of a neoplastic disease or for the inhibition of tumor cell growth each comprising the step of administering to an individual in need of such treatment a pharmacologically effective dose of the compounds of the present invention are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 460754-50-1P

LN.CNT 1663

(asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

RN 460754-50-1 USPATFULL

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-[(2S)-2-(hydroxymethyl)-1pyrrolidinyl]-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-2-pentyl-, (2R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L61 ANSWER 2 OF 4 USPATFULL on STN
AN
       2002:344426 USPATFULL
       Asymmetric synthesis of (S,S,R)-(-)-actinonin and its analogs and uses
ΤI
       therefor
       Bornmann, William G., New York, NY, UNITED STATES
IN
       Sirotnak, Francis, New York, NY, UNITED STATES
       Scher, Howard, Tenefly, NJ, UNITED STATES Vidal, Ephraim, Cincinnati, OH, UNITED STATES
       Borella, Christopher, New York, NY, UNITED STATES
       Scheinberg, David, New York, NY, UNITED STATES
PΙ
       US 2002198156
                            A1
                                 20021226
       US 6660741
                            B2
                                 20031209
       US 2002-102593
                                 20020319 (10)
ΑI
                            A1
PRAI
       US 2001-277116P
                             20010319 (60)
DΤ
       Utility
       APPLICATION
FS
       Benjamin Aaron Adler, ADLER & ASSOCIATES, 8011 Candle Lane, Houston, TX,
LREP
CLMN
       Number of Claims: 21
ECL
       Exemplary Claim: 1
       7 Drawing Page(s)
DRWN
```

AB The present invention provides methods for the asymmetric synthesis of (S,S,R)-(-)-actinonin and its analogs and the compounds thereby synthesized having a structural formula: ##STR1##

where R.sup.1 is an optionally substituted or halogenated alkyl, aryl, heteroalkyl or heteroaryl amine, said R.sup.1 further comprising a cyclic or bicyclic structure; R.sup.2 is methyl, CH.sub.2CH.sub.3, (CH.sub.2).sub.2CH.sub.3, C(CH.sub.3).sub.3, phenyl, 3,4-dichiorophenyl, biphenyl, benzyl, 4-hydroxybenzyl, piperidine, N-Boc-4-piperidine, CH.sub.2-(N-Boc-4-piperidine), 4-tetrahydropyran, CH.sub.2-4tetrahydropyran, 3-methyl indolyl, 2-naphthyl, 3-pyridyl, 4-pyridyl, 3-thienyl; R.sup.3 is R.sup.2 or C.sub.3-8alkyl, R.sup.4 is C.sub.1-3alkyl; and R.sup.5 is NH.sub.2, OH, NHOH, NHOCH.sub.3, N(CH.sub.3)OH, N(CH.sub.3)OCH.sub.3, NHCH.sub.2CH.sub.3, NH(CH.sub.2CH.sub.3), NHCH.sub.2(2,4-(OCH3).sub.2Ph, NHCH.sub.2(4-NO.sub.2)Ph, NHN(CH.sub.3).sub.2, proline, or 2-hydroxymethyl pyrrolidine. Additionally, a method for the treatment of a neoplastic disease or for the inhibition of tumor cell growth each comprising the step of administering to an individual in need of such treatment a pharmacologically effective dose of the compounds of the present invention are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 460754-50-1P

(asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

RN 460754-50-1 USPATFULL

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-2-pentyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L61 ANSWER 3 OF 4 USPATFULL on STN

AN 1999:146610 USPATFULL

TI C-terminal ketone inhibitors of matrix metalloproteinases and $TNF\alpha$ secretion

IN Davidsen, Steven K., Libertyville, IL, United States Florjancic, Alan S., Lake Bluff, IL, United States Sheppard, George S., Wilmette, IL, United States Giesler, Jamie R., Oak Creek, WI, United States Xu, Lianhong, Libertyville, IL, United States Guo, Yan, Gurnee, IL, United States Curtin, Michael L., Kenosha, WI, United States Michaelides, Michael R., Gurnee, IL, United States Wada, Carol K., Grayslake, IL, United States Holms, James H., Gurnee, IL, United States

PA Abbott Laboratories, Abbott Park, IL, United States (U.S. corporation) PΙ US 5985911 19991116 ΑI US 1997-992578 19971217 (8) PRAI US 1997-35781P 19970107 (60) DТ Utility Granted FS EXNAM Primary Examiner: Gerstl, Robert Steele, Gregory W. LREP Number of Claims: 13 CLMN ECL Exemplary Claim: 1 No Drawings DRWN LN.CNT 2976 CAS INDEXING IS AVAILABLE FOR THIS PATENT. C-terminal compounds of formula ##STR1## are potent inhibitors of matrix AB metalloproteinase and are useful in the treatment of diseases in which matrix metalloproteinase play a role. Also disclosed are matrix metalloproteinase inhibiting compositions and a method of inhibiting matrix metalloproteinase in a mammal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 210710-79-5P 210710-80-8P 210710-83-1P

210710-86-4P 210710-88-6P 210710-94-4P

210711-13-0P 210711-17-4P 210711-81-2P

250152-85-3P

(preparation of [(aroylalkyl)amino]succinylhydroxamic acids and analogs as inhibitors of matrix metalloproteinases and $TNF\alpha$ secretion)

RN 210710-79-5 USPATFULL

CN Butanediamide, N4-hydroxy-N1-[(1R)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 210710-80-8 USPATFULL

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-83-1 USPATFULL

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(4-pentenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-86-4 USPATFULL

CN Hexanoic acid, 3-[[[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 210710-88-6 USPATFULL

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 210710-94-4 USPATFULL CN Butanediamide, N4-hydroxy-N1-[(1S)-1-(1H-indol-3-ylcarbonyl)-2,2-

dimethylpropyl] -2-(2-methylpropyl) -3-(2-propenyl) -, (2R,3S) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-13-0 USPATFULL

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-17-4 USPATFULL

CN Butanediamide, N4-hydroxy-2-(2-methylpropyl)-N1-[2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-3-yl)ethyl]-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

RN 210711-81-2 USPATFULL

CN Butanediamide, N4-hydroxy-N1-[2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 250152-85-3 USPATFULL

CN Butanediamide, N4-hydroxy-N1-[2-(1-methyl-1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, (2R,3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 210710-78-4P 210711-12-9P

(preparation of [(aroylalkyl)amino]succinylhydroxamic acids and analogs as inhibitors of matrix metalloproteinases and $\text{TNF}\alpha$ secretion)

RN 210710-78-4 USPATFULL

CN Hexanoic acid, 3-[[[2-(1H-indol-3-yl)-2-oxo-1-(phenylmethyl)ethyl]amino]carbonyl]-5-methyl-2-(2-propenyl)-, (2S,3R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 210711-12-9 USPATFULL

CN Hexanoic acid, 5-methyl-3-[[[(1S)-2-oxo-1-(phenylmethyl)-2-(1H-pyrrol-2-yl)ethyl]amino]carbonyl]-2-(2-propenyl)-, (2S,3R)- (9CI) (CA INDEX NAME)

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L61
     ANSWER 4 OF 4 USPAT2 on STN
       2002:344426 USPAT2
ΑN
ΤI
       Asymmetric synthesis of (S,S,R)-(-)-actinonin and its analogs and uses
       therefor
IN
       Bornmann, William G., New York, NY, United States
       Sirotnak, Francis, New York, NY, United States
       Scher, Howard, Tenefly, NJ, United States
       Vidal, Ephraim, Cincinnati, OH, United States
       Borella, Christopher, New York, NY, United States
       Scheinberg, David, New York, NY, United States
       Sloan-Kettering Institute for Cancer Research, New York, NY, United
PA
       States (U.S. corporation)
PΙ
       US 6660741
                                20031209
ΑI
       US 2002-102593
                                20020319 (10)
PRAI
       US 2001-277116P
                           20010319 (60)
DT
       Utility
FS
       GRANTED
EXNAM
       Primary Examiner: McKane, Joseph K.; Assistant Examiner: Shiao, Robert
LREP
       Adler, Benjamin Aaron
CLMN
       Number of Claims: 16
ECL
       Exemplary Claim: 1
DRWN
       9 Drawing Figure(s); 7 Drawing Page(s)
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LN.CNT 1569

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for the asymmetric synthesis of (S,S,R)-(-)-actinonin and its analogs and the compounds thereby synthesized having a structural formula: ##STR1##

where R.sup.1 is an optionally substituted or halogenated alkyl, aryl, heteroalkyl or heteroaryl amine, said R.sup.1 further comprising a cyclic or bicyclic structure; R.sup.2 is methyl, CH.sub.2CH.sub.3, (CH.sub.2).sub.2CH.sub.3, C(CH.sub.3).sub.3, phenyl, 3,4-dichiorophenyl, biphenyl, benzyl, 4-hydroxybenzyl, piperidine, N-Boc-4-piperidine, CH.sub.2-(N-Boc-4-piperidine), 4-tetrahydropyran, CH.sub.2-4tetrahydropyran, 3-methyl indolyl, 2-naphthyl, 3-pyridyl, 4-pyridyl, 3-thienyl; R.sup.3 is R.sup.2 or C.sub.3-8alkyl, R.sup.4 is C.sub.1-3alkyl; and R.sup.5 is NH.sub.2, OH, NHOH, NHOCH.sub.3, N(CH.sub.3)OH, N(CH.sub.3)OCH.sub.3, NHCH.sub.2CH.sub.3, NH(CH.sub.2CH.sub.3), NHCH.sub.2(2,4-(OCH3).sub.2Ph, NHCH.sub.2(4-NO.sub.2)Ph, NHN(CH.sub.3).sub.2, proline, or 2-hydroxymethyl pyrrolidine. Additionally, a method for the treatment of a neoplastic disease or for the inhibition of tumor cell growth each comprising the step of administering to an individual in need of such treatment a pharmacologically effective dose of the compounds of the present invention are provided.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 460754-50-1P

(asym. synthesis of analogs and derivs. of actinonin as tumor cell growth inhibitors)

RN 460754-50-1 USPAT2

CN Butanediamide, N4-hydroxy-N1-[(1S)-2-[(2S)-2-(hydroxymethyl)-1-pyrrolidinyl]-1-(1H-indol-3-ylmethyl)-2-oxoethyl]-2-pentyl-, (2R)- (9CI) (CA INDEX NAME)

L3 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:635397 CAPLUS

DOCUMENT NUMBER: 136:215000

TITLE: Dipeptidyl peptidase IV/CD26 and aminopeptidase N/CD13

in regulation of the immune response

AUTHOR(S): Ansorge, Siegfried; Kahne, Thilo; Lendeckel, Uwe;

Reinhold, Dirk; Neubert, Klaus; Steinbrecher, Andreas;

Brocke, Steffan

CORPORATE SOURCE: Department of Internal Medicine, Institute of

Experimental Internal Medicine, Otto von Guericke University Magdeburg, Magdenburg, D-39120, Germany

SOURCE: International Congress Series (2001),

1218 (Cell-Surface Aminopeptidases: Basic and Clinical

Aspects), 85-94

CODEN: EXMDA4; ISSN: 0531-5131

PUBLISHER: Elsevier Science B.V. DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

A review. The ectoenzymes dipeptidyl peptidase IV (DPPIV, EC 3.4.14.5; AB CD26) and aminopeptidase N (APN, EC 3.4.11.2; CD13) have been shown to play a crucial role in T lymphocyte activation. Obviously they represent a new type of costimulatory T cell structure. Potential ligands as specific inhibitors of APN (e.g., actinonin, probestin) or DPPIV (Lys[Z(NO2)]-thiazolidide or -pyrrolidide) suppress DNA synthesis as well as cytokine production (APN: IL-2, DPPIV: IL-2 IL-10, IL-12, IFN- γ) of stimulated T cells. This can be explained, at least in part, by an induction of TGF-β1, an immunosuppressive cytokine, accompanied by a decrease of DPPIV mRNA and a blockade of the cell cycle at the restriction point G1/S via p27kip. DPPIV inhibitors provoke tyrosine phosphorylation and p38 MAP kinase activation and exhibit blocking effects on the anti-CD3-induced signal cascades including calcium mobilization, PKB activation as well as MEK1/2 activation. On the other hand, APN inhibitors provoke a dramatic increase of the protooncogene Wnt-5a and a marked reduction of glycogen synthase kinase-3 β (GSK-3 β). Elevated nos. of CD26+ T cells were described in patients with autoimmune diseases such as multiple sclerosis or rheumatoid arthritis. The expression of DPPIV/CD26 in resting cell clones derived from patients with multiple sclerosis was found to be 3- to 4-fold higher than on resting peripheral blood T cells from healthy persons. DPPIV inhibitors suppress DNA synthesis, and IFN- γ , IL-4 and TNF- α production of those antigen-stimulated T cell clones in a dose-dependent manner. Moreover, in the murine exptl. autoimmune encephalomyelitis (EAE), a well characterized CD4+ T cell-mediated autoimmune disease leading to CNS inflammation and demyelination, administration of a DPPIV/CD26 inhibitor in vivo prevented clin. and neuropathol. signs of the EAE and suppressed ongoing disease. These data support the idea of a new anti-inflammatory peptidase-based immunosuppressive (PBDS) approach for the treatment of autoimmune diseases.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT